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ational Application No ~ 「/IB2004/000706

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E21B10/56 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 E21B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages 1 - 4EP 0 411 831 B (REED TOOL CO) X 6 February 1991 (1991-02-06) column 5, line 8 - line 15; figure 1 5-20 5-20 Υ US 4 694 918 A (HALL DAVID R) 22 September 1987 (1987-09-22) column 17, line 43 - line 44 column 6, line 29 - line 35 column 3, line 4 - line 28 column 19, line 22 - line 34 1-20 US 6 290 008 B1 (SIRACKI MICHAEL A ET AL) Α 18 September 2001 (2001-09-18) cited in the application column 11, line 51 -column 12, line 4 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention 'E' earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the International search report 27/07/2004 21 July 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Stroemmen, H. Fax: (+31-70) 340-3016

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